

IN THE CLAIMS:

Please substitute the following list of claims for the previous list of claims:

1. (previously presented) A battery comprising:
 - a substrate;
 - a cathode on the substrate, the cathode having a surface;
 - a cathode current collector comprising a plurality of conducting lines that contact the surface of the cathode, the conducting lines having spacings therebetween;
 - an electrolyte at least partially extending through the spacings between the conducting lines of the cathode current collector to contact the cathode; and
 - an anode contacting the electrolyte.
2. (currently amended) A battery according to claim 1 wherein the cathode current collector is between the electrolyte and the cathode.
3. (original) A battery according to claim 1 wherein the cathode current collector is absent a non-reactive metal containing material.
4. (original) A battery according to claim 1 wherein the cathode current collector comprises aluminum, cobalt, copper, nickel, titanium, tantalum, vanadium, zirconium, and alloys and compounds mixtures thereof.
5. (original) A battery according to claim 1 wherein the conducting lines comprise elongated prongs extending from a base prong.
6. (original) A battery according to claim 1 wherein the conducting lines contact less than 80% of the area of the surface of the cathode.
7. (original) A battery according to claim 1 wherein the substrate comprises mica.

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8. (original) A battery according to claim 1 wherein the cathode comprises lithium cobalt oxide.

9. (original) A battery according to claim 1 comprising an anode current collector contacting the anode.

10. (withdrawn) A method of fabricating a battery, the method comprising:
forming a substrate;
forming a cathode on the substrate, the cathode having a surface;
forming a cathode current collector comprising one or more
conducting lines that contact the surface of the cathode;
forming an electrolyte at least partially extending through the
conducting lines of the cathode current collector to contact the cathode; and
forming an anode contacting the electrolyte.

11. (withdrawn) A method according to claim 10 comprising forming the cathode current collector between electrolyte and the cathode.

12. (withdrawn) A method according to claim 10 comprising forming one or more conducting lines having elongated prongs extending from a base prong.

13. (withdrawn) A method according to claim 10 comprising forming the conducting lines by placing a mask on the substrate and depositing material through the openings of the mask.

14. (withdrawn) A method according to claim 13 comprising depositing the material by physical vapor deposition.

15. (withdrawn) A method according to claim 14 comprising depositing material comprising a metal containing material.

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16. (withdrawn) A method according to claim 10 comprising forming conducting lines that contact less than 80% of the area of a surface of the cathode.

17. (withdrawn) A method according to claim 10 comprising forming a substrate comprising mica.

18. (withdrawn) A method according to claim 10 comprising forming a cathode comprising lithium cobalt oxide.

19. (withdrawn) A method according to claim 10 comprising forming an anode current collector contacting the anode.

20. (currently amended) A thin film battery comprising:
a substrate comprising a dielectric material;
a cathode layer having a surface on adhering to the substrate and an opposing surface;
a cathode current collector layer comprising one or more conducting lines contacting adhering to the opposing surface of the cathode layer, the conducting lines having spacings therebetween or thereabout;
an anode layer facing the opposing surface of the cathode layer and the cathode current collector layer; and
an electrolyte layer between the cathode current collector layer, cathode layer and anode layer, the electrolyte layer at least partially extending through the one or more spacings between or about the one or more conducting lines of the cathode current collector layer to contact the opposing surface of the cathode layer.

21. (cancelled)

22. (previously presented) A battery according to claim 20 wherein the cathode current collector comprises aluminum, cobalt, copper, nickel, titanium, tantalum, vanadium, zirconium, and alloys and compounds mixtures thereof.

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23. (previously presented) A battery according to claim 20 wherein the conducting lines comprise elongated prongs extending from a base prong.

24. (previously presented) A battery according to claim 20 wherein the substrate comprises mica.

25. (previously presented) A battery according to claim 24 wherein the cathode comprises lithium cobalt oxide.

26. (currently amended) A battery comprising:
a substrate;
a cathode having a surface on the substrate and an opposing surface;
a cathode current collector comprising a pattern of conducting lines contacting the opposing surface of the cathode, the conducting lines having spacings therebetween;
an anode; and
an electrolyte between the cathode and anode, the electrolyte at least partially extending through the spacings between the conducting lines.

27. (currently amended) A battery according to claim 26 wherein the pattern of conducting lines comprise one or more of meandering lines, circular lines, random lines, radial lines, horizontal lines, vertical lines, and diagonal lines and arcuate lines.

28. (cancelled)

29. (previously presented) A battery according to claim 26 wherein the substrate comprises mica.

30. (previously presented) A battery according to claim 26 wherein the cathode comprises lithium cobalt oxide.

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31. (new) A battery comprising:
- a substrate;
 - a cathode on the substrate, the cathode having a surface;
 - a cathode current collector contacting the surface of the cathode, the cathode current collector comprising conducting lines having a plurality of elongated prongs extending outwardly from a base prong, the elongated prongs having spacings therebetween;
 - an electrolyte at least partially extending through the spacings between the elongated prongs of the cathode current collector to contact the cathode; and
 - an anode contacting the electrolyte.
32. (new) A battery according to claim 31 wherein the substrate comprises mica.
33. (new) A battery according to claim 31 wherein the cathode comprises lithium cobalt oxide.
34. (new) A battery according to claim 31 wherein the electrolyte comprises lithium phosphorus oxynitride.
35. (new) A battery according to claim 31 wherein the cathode current collector comprises one or more of copper, aluminum and indium tin oxide.

36. (new) A battery comprising:

- a substrate;
- a cathode comprising lithium cobalt oxide, the cathode having a surface on the substrate and an opposing surface;
- a cathode current collector contacting the opposing surface of the cathode, the cathode current collector comprising conducting lines having a plurality of elongated prongs extending outwardly from a base prong, the elongated prongs having spacings therebetween, the cathode current collector comprising one or more of copper, aluminum, and indium tin oxide;
- an electrolyte comprising lithium phosphorus oxynitride at least partially extending through the spacings between the elongated prongs of the cathode current collector to contact the opposing surface of the cathode; and
- an anode facing the opposing surface of the cathode and contacting the electrolyte.

37. (new) A battery according to claim 36 wherein the substrate comprises mica.

38. (new) A battery comprising:

- a substrate;
- a cathode having a surface on the substrate and an opposing surface;
- a cathode current collector contacting the opposing surface of the cathode, the cathode current collector comprising a pattern of conductors having a plurality of shapes with spacings therebetween, the plurality of shapes comprising one or more different shapes;
- an electrolyte at least partially extending through the spacings between the shapes of the pattern of conductors of the cathode current collector to contact the opposing surface of the cathode; and
- an anode contacting the electrolyte.

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39. (new) A battery according to claim 38 wherein the substrate comprises mica.

40. (new) A battery according to claim 38 wherein the cathode comprises lithium cobalt oxide.

41. (new) A battery according to claim 38 wherein the electrolyte comprises lithium phosphorus oxynitride.

42. (new) A battery according to claim 38 wherein the cathode current collector comprises one or more of copper, aluminum and indium tin oxide.

43. (new) A battery comprising:
a substrate;
a cathode having a surface on the substrate and an opposing surface;
a cathode current collector contacting the opposing surface of the cathode, the cathode current collector comprising a layer having spacings therein;
an electrolyte at least partially extending through the spacings in the cathode current collector layer to contact the opposing surface of the cathode; and
an anode contacting the electrolyte.

44. (new) A battery according to claim 43 wherein the layer is continuous.

45. (new) A battery according to claim 43 wherein the substrate comprises mica.

46. (new) A battery according to claim 43 wherein the cathode comprises lithium cobalt oxide.

47. (new) A battery according to claim 43 wherein the electrolyte comprises lithium phosphorus oxynitride.

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48. (new) A battery according to claim 43 wherein the cathode current collector comprises one or more of copper, aluminum and indium tin oxide.

49. (new) A battery comprising:

- a substrate;
- a cathode having a surface on the substrate and an opposing surface;
- a cathode current collector contacting the opposing surface of the cathode, the cathode current collector comprising a single continuous conducting line having portions with spacings therebetween;
- an electrolyte at least partially extending through the spacings between portions of the conducting line of the cathode current collector to contact the opposing surface of the cathode; and
- an anode contacting the electrolyte.

50. (new) A battery according to claim 49 wherein the conducting line comprises concentric arcuate portions.

51. (new) A battery according to claim 49 wherein the cathode current collector covers substantially the entire cathode opposing surface.

52. (new) A battery according to claim 49 wherein the substrate comprises mica.

53. (new) A battery according to claim 49 wherein the cathode comprises lithium cobalt oxide.

54. (new) A battery according to claim 49 wherein the electrolyte comprises lithium phosphorus oxynitride.

55. (new) A battery according to claim 49 wherein the cathode current collector comprises one or more of copper, aluminum and indium tin oxide.

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